NO	2125684	
SHEE		0
OF		27

# DIAGNOSTIC TEST

IITLE	1622 CAR	INPUT/OUTPUT	T DIAGNOSTIC TEST	- IO02			
MACH.		1620	<b>ВҮ</b>	APPR.	G.1.A.	DATE	4-11-62

## ENGINEERING CHANGE HISTORY

E/C NO.	DATE	SHEETS AFFECTED
404618	5-15-61	1-26
404675	4-11-62	2,3,4,10,12, 13,15,19,20 22,23,24,25,26,27
404839	2-27-63	5,8

E/C NO.	404618	404675	404839		
DATE	5-15-61	4-11-62	2-27-63		

#### 1622 DIAGNOSTICS

#### **TEST 1002**

#### A. SCOPE:

This test was designed to check all characters in all positions of the buffers in the 1622 punch and read, the last card indicator, and the read and write checks; both in alpha and numeric modes.

#### B. SET UP:

Sense Switch settings give the same result as standard 1620 diagnostic programs. To obtain the greatest amount of printed information in regard to errors place all Sense Switches in the Off position.

#### C. TEST METHOD:

The first two cards of the test deck contain loading instructions for the math tables which are contained on the following five cards. The eighth card contains the loading instructions for the program.

The entire deck plus two blank cards at the end are loaded into the reader bed, and with the computer in manual mode the Load Key is depressed.

When the last card has been read, a printout advising of the Sense Switch settings occurs and the computer halts.

Depressing the computer Start key continues the program until instructions are printed out to key in 80 alpha characters. Load the punch bed with a deck of blank cards and depress the card reader Start key on the punch. At this point the operator has a choice of one of two options:

- 1. Key in 80 characters, release, start:
- Reset, insert, key in: 4907152 Release, Start.
   (This causes a ripple deck of 80 cards to be punched.)

Option I allows the operator to select any desired sequence of characters, or any characters except the record mark he may wish including spacings. One need not key in 80 characters. A count of keyed in characters is unnecessary because an automatic function of the program allows only the first 80 characters to be used.

Option II allows the operator to use a table of 80 characters previously placed in core storage by the program. Option II is selected by branching to 07152 for alphameric and to 07188 for numeric.

Option I may be preferable when a trouble is known to exist in a definite sequence.

A write check error occuring during the punching of the ripple deck causes a print out advising of such and a halt. Depression of the computer Start key reinitiates conditions for a restart without the need to reload the program.

When the printout occurs advising completion of the punching, depress Non Process Run out keys on the reader and punch. Remove the last two cards, (they will be unpunched), from the deck and place the deck in the read bed. Removal of last two cards is necessary to check the Last Card indicator. Depress the reader Start key. Depress computer Start key.

#### C. TEST METHOD - continued

When the ripple deck is being read a noticable variation of the reading rate of the cards may be observed. This being due to the searching of the computer through a comparison of a table. The rate may be fluctuated by shuffling the ripple deck prior to placing it in the read bed.

The program provides up to three attempts to successfully transfer the information read from the card from the 1622 to the 1620 in the event of a Read Check on the first attempt. If a Read Check occurs on the first transfer but the second or third attempted transfer is successful, a typeout stating the specific circumstance will occur. If a Read Check occurs on all three attempts, a print out advising of a restart is made. A restart at this point requires reloading of the ripple deck in the read bed.

If a card does not compare correctly after being read and all Sense Switches are off, a branch to error routine H001 is performed. After printing out H001 and the typewriter carriage is returned, a printout of the information contained on the erroneous card is performed followed by a print out of the table with which a comparison was attempted.

The table was generated automatically by the keyed in 80 characters doubled. By visually checking the card erroneously read, the operator can ascertain whether the punch incorrectly punched the data or the reader incorrectly read the punched data. Because each character keyed in passes through the punch and read buffers at least one time a defective punch or read circuit may be located.

Depressing computer Start Key continues the reading of the ripple deck with the card following the erroneous card.

An excellent check of the error portion of this program would be to insert a blank card or a card with known data into the ripple deck prior to loading into the reader and observing the results.

#### C. TEST METHOD - continued

The reader stops after the 78th card is read. It is necessary to depress the reader Start key to read the final two cards and check the Last Card Indicator.

Two checks of the Last Card Indicator are performed. The first checks that it is on and the second checks that it is turned off after inquiry.

H002 - Last Card indicator not on.

H003 - Last Card indicator not off.

The numeric portion of the test is conducted in the same manner as the alpha.

Option II will be 49 07188

H004 will be analogous to H001

H005 will be analogous to H002

H006 will be analogous to H003.

The ripple deck reading portions of the test may be run individually using prepunched ripple decks by branching to 02796 for alphameric and to 05304 for numeric.

The complete normal typeout information will be as follows: (Note: The specific alphameric and numeric data keyed in is optional to the operator: or options I and/or II may be used.)

SW 1 OFF SW 2 OFF SW 3 OFF SW 4 OFF SET SWS FOR 1002 THEN START.

KEY IN 80 ALPHA CHARACTERS TO GENERATE RIPPLE DECK.

ABCDEFGHUJKLMNOPQRSTUVWXYZ0123456789@()=\*.-+\$/.,

ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456

RIPPLE DECK PUNCHED LOAD INTO READER - START.

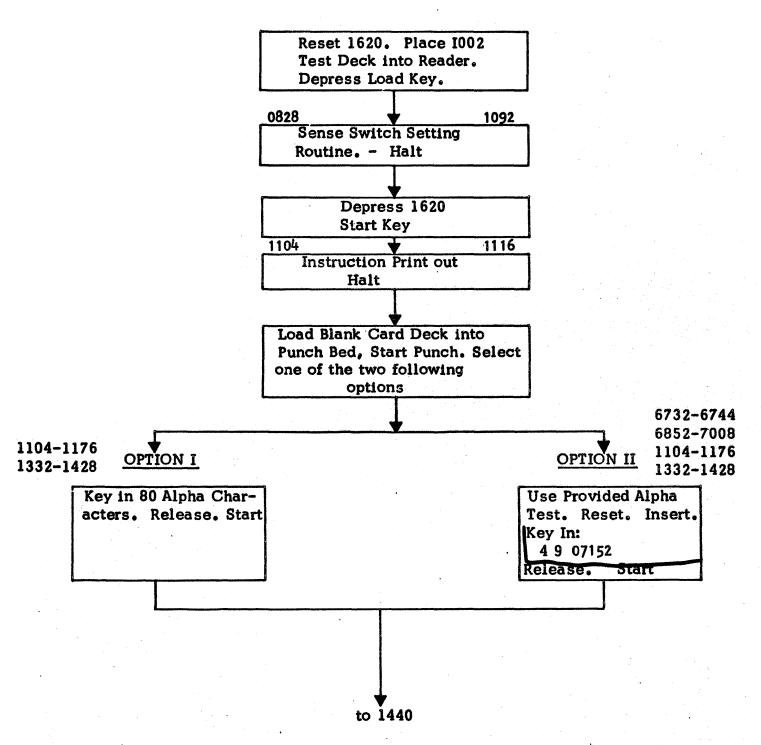
ALPHA OK - KEY IN 80 NUMERIC CHARACTERS TO GENERATE RIPPLE DECK.

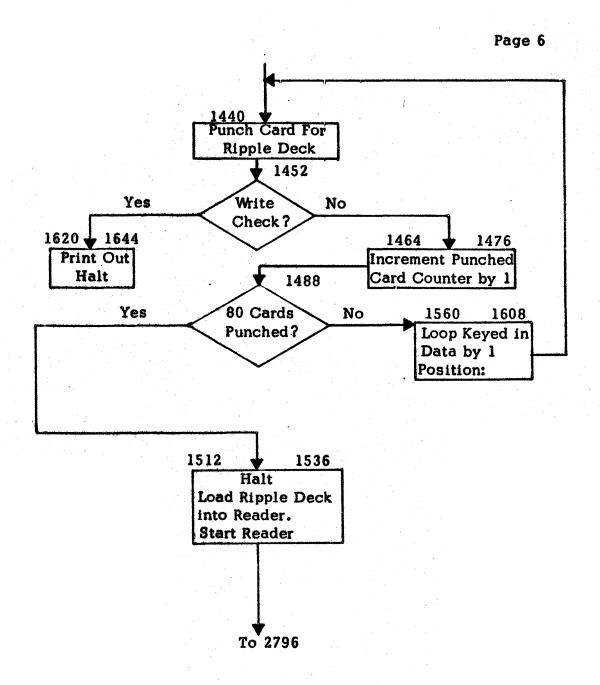
0123456789012345678901234567890123456789

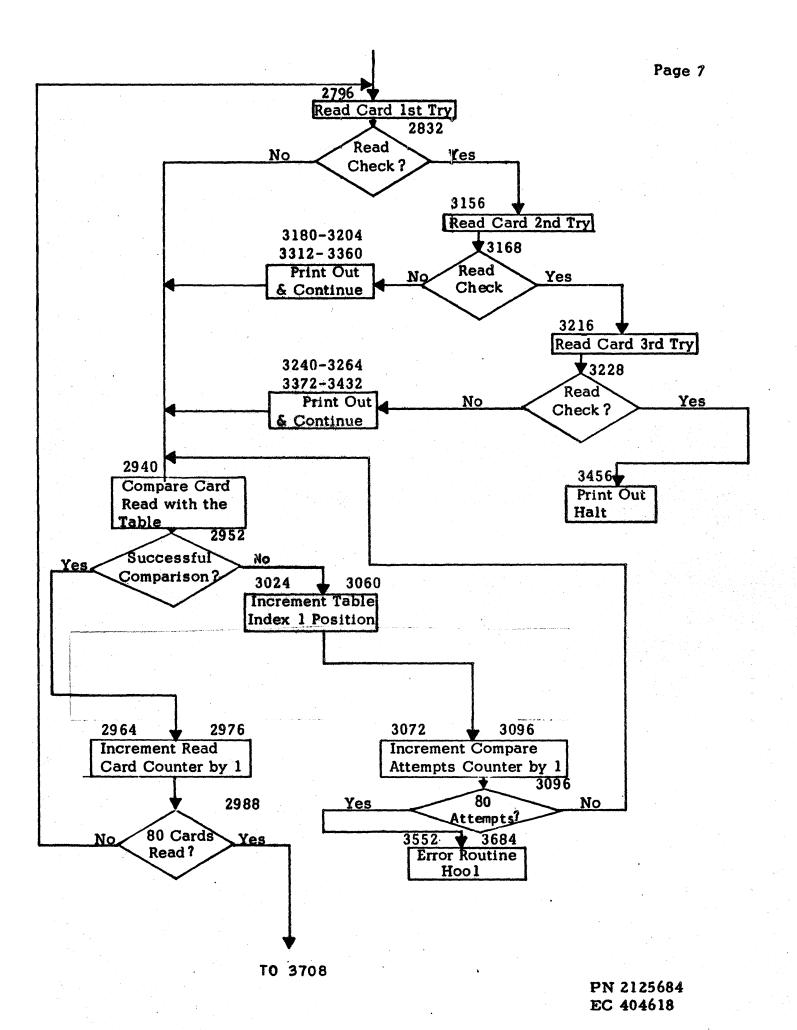
0123456789012345678901234567890123456789

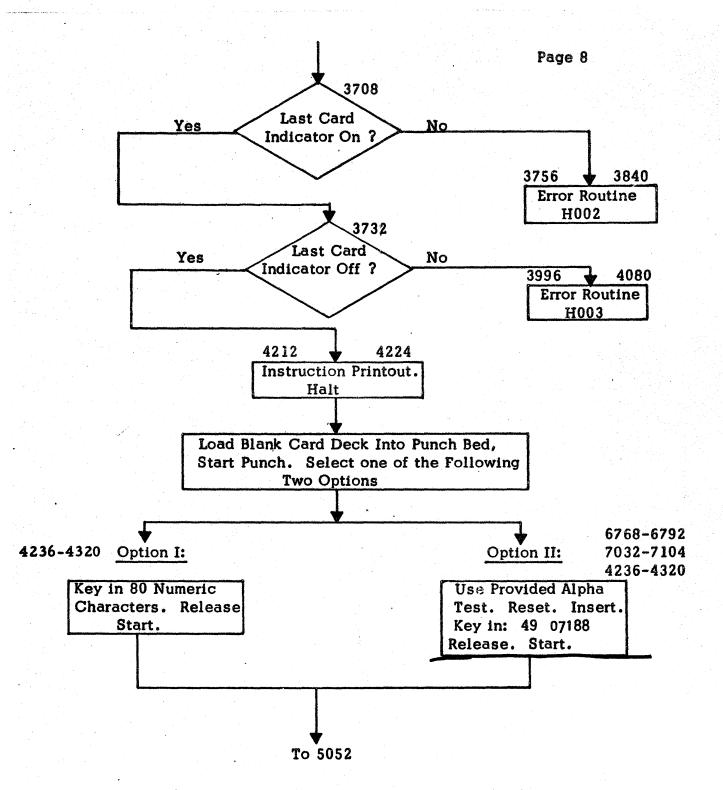
RIPPLE DECK PUNCHED LOAD INTO READER - START.

IF NO ETOS 1002 SUCCESSFUL.

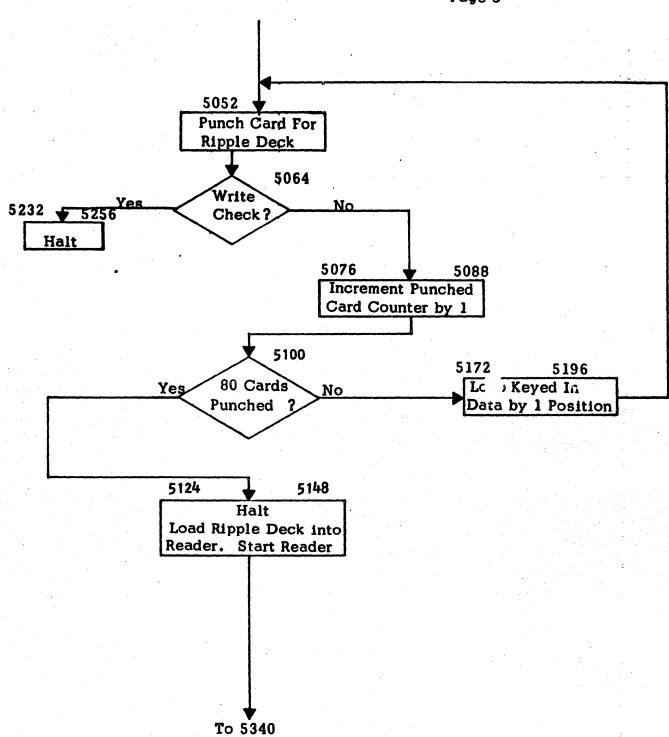


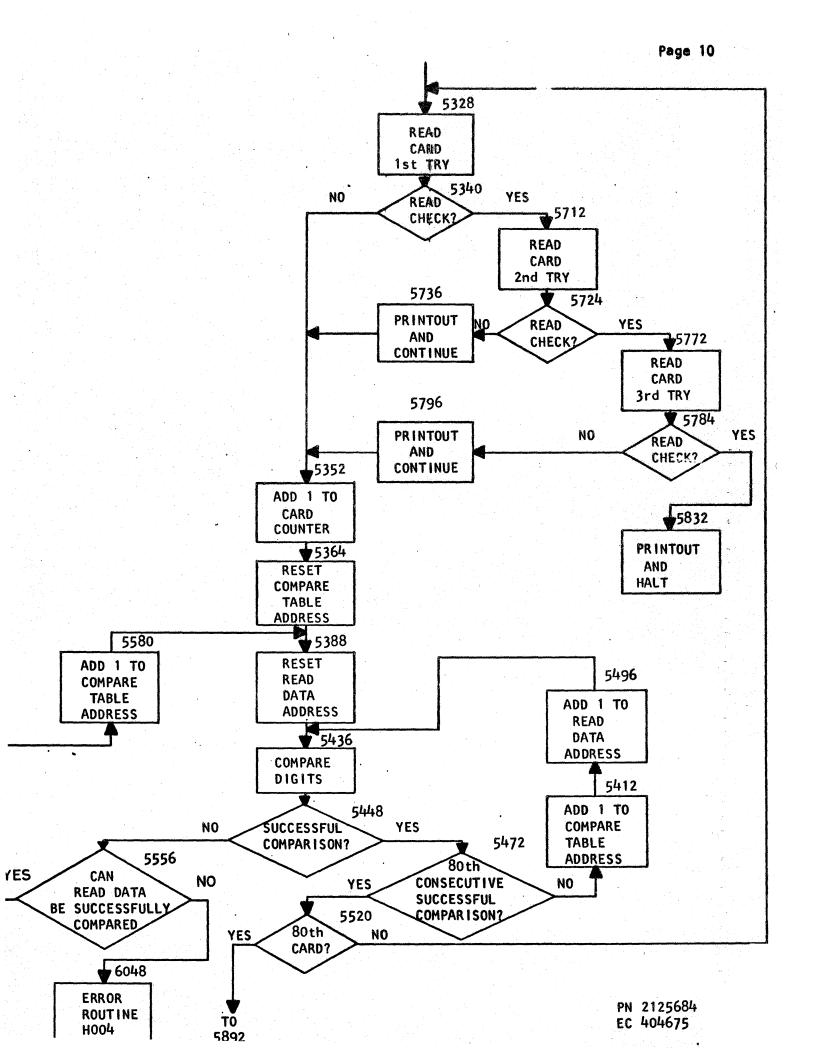




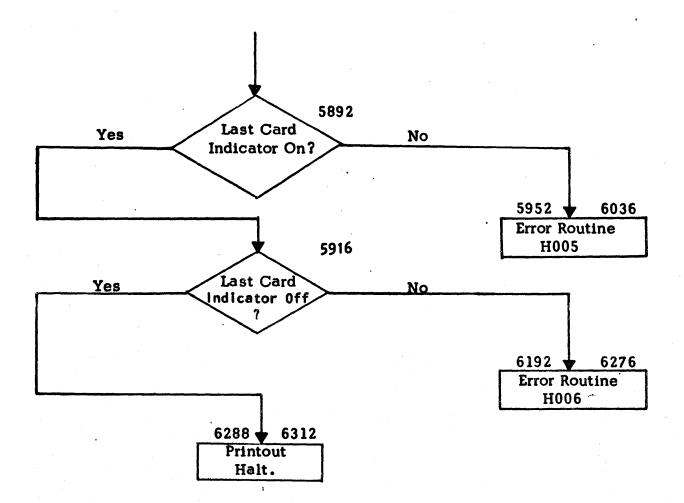








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ì	0	0	2

36 36 36 36	00060 00100 00160 00220 00280	00500 00500 00500 00500 00500	RN RN RN RN RN	1st	Card
36 36 49	00340 00000 00000	00500 00500	RN RN B	2nd	Card
00 10 40 90 61	00000 20304 60800 21004 00500	00000 00020 03060 08021 15102		3rd	Card
00 70 61 72 00	60218 41128 42230 63000 50607	14200 20080 09081 00000 08090		4th	Card
01 81 82 04 45	21416 12427 23635 54036 53249	18151 20242 20353 32484 46536		5th	Card
04 45 45 78 01	84654 36271 67891 90234 34567	62754 80123 23456 56 <u>789</u> 89012		6th	Card
45 78 01 34 67	67890 90123 23457 56890 90123	12356 46789 89012 12345 45678		7th	Card
36 11 14 46 49	00612 00006 00006 00828 00000	00500 00060 07212 01200 00000	RN AM CM BI B	8th	Card

### 1002

		•				
0432						
444						
456						
468		1				
480						
0492						
504						
516						
528						
540						
0553						
0552						
564			•			
576						
588						
600				•		
0612	62	66 7	1 56		SW.IO	
624	55	0≠6	266	•	N S W	
636	71	564	646		I OFF	
648	0≠	6266	72		S W 2	
660	56	55 0	<b>≠</b> 6266		ON SW	
0672		72 5	64646		2 OFF	
684		0≠626	6 73	• .	S W 3	
696		5655	0≠62		ON S	
708	66	73	5646		W 3 OF	•
720	46	0≠6	266		F SW	
720	-10	070	200		1	
0732	74	565	5 0≠		4 O N	
744	62	66 7	4 56		S W 4 0	
756	46	46 0	≠6245		FF SE	
768	63	626	662			
780	46	5659				
700	40	3639	4970		FOR IO	
0700	F.C	70 6	24045		0.0	
0792	56	72 6	34845		0 2	
0804	55	626	34159		THENS	
16	63	03 0	<b>≠</b>		TART. 🗲	
28	46	00852	00100	ΒI	Check S W 1 on	
40	47	00876	00100	BNI	Check S W 1 off	
0852	39	00613	00100	WA	S W 1 on	
64	49	00888		В		
76	39	00631	00100	W A	S W 1 off	
88	46	00912	00200	ВІ	Check S W 2 on	
0900	47	00936	00200	BNI	Check S W 2 off	
			•		PN 2125	
					EC 4046	<b>7</b> 5

0912	3 <b>9</b>	00651	00100	WA	S W 2 on
24	49	00948		В	
36	39	00669	00100	w A	S W 2 off
48	46	00972	00300	BI	Check S W 3 on
60	47	00996	00300	BNI	Check S W 3 off
00	4/	00330	00300	DIAT	Check 5 W 5 Off
0972	39	00689	00100	W A	S W 3 on
84	49	01008		В	
96	39	00707	00100	WA	S W 3 off
1008	46	01032	00400	ВІ	Check S W 4 on
20	47	01056	00400	BNI	Check S W 4 off
		02000		<b>D.11.</b>	0.100 D W 1 022
1032	39	00727	00100	WA	S W 4 on
44	49	01068		В	
56	39	00745	00100	w A	S W 4 off
68	39	00765	00100	W A	
80	34		00102	K	Carriage return
	• •		0020-	•	Carrage return
1092	48			Н	
1104	39	01213	00100	W A	Key in 80 alpha etc.
16	34		00102	K	carriage return
28	37	01933	00100	R A	place 80 char in buffers
40	15	02093	0000≠	TDM	set R M
1152	34		00102	K	
64	32	01932	3020-	SF	
76	49	01332		В	
88	10	0.00-			
1200					
1212	52	4568	4955		Key in
24	<b>-</b>	7870	4153		80 Al
36	57	4841	4348		Pha Ch
48	41	59414	36345		aracte
60	59	62 6	356		rs To
00	33	02 0	330		15 10
1272	47	45554	55941		Genera
84	63	45 5	94957		te Rip
96	57	4345	4445		ple De
1308	43	5203	0≠		ck. ≠
20		-	•		
. =•					
1332	31	02112	01932	TR	Generate work area
44	31	02472	01932	TR	Generate table'
56	31	02632	01932	TR	look - up
68	33	02632		CF	area
80	46	01392	01400	BI	Turn off overflow

1392	46	01404	00600	ВІ	turn off R/C ind
1404	46	01416	00700	ВІ	turn off W/C ind
16	46	01428	00900	ВІ	turn off L/C ind
28	46	06612	01900	ВІ	check Any latch.
40	39	02113	00400	W A	punch ripple deck
40	33	02113	00400	VV A	punch ripple deck
1452	46	01620	00700	ВІ	W/C error
64	11	06347	Ō1	A M	Add 1 to punched card counter
76	14	06347	. 80	C M	•
88	47	01560	01200	BNI	ripple deck complete?
1500	16	06347		TFM	reset punched card counter
1300	10	00047	00		reset punched card counter
1512	39	01669	00100	WA	ripple deck has been punched etc.
24	34		00102	K	
36	48			H	
48	49	02796		В	
60	31	02110	02112	TR	
	01	02110	02112	1 K	
1572	26	02271	02111	TF	
84	33	02270	•	C F	
96	32	02112		SF	
1608	49	01440		В	
20	39	01765	00100	W A	W/C error etc.
20	33	01/03	00100	VV A	W/C enor etc.
1632	34	,	00102	K	
. 44	48			Н	
56	49	01104		В	
68	59	49575	75345	_	Ripple
80	Ç	44454	352		Deck
		7777	332		Deck
1692	57	64554	34845		Punche
1704	44	535	64144		d Load
16		49556	356		Into
28	59	45414	44559		Reader
40		20 6	26341		- Sta
-7			20011		
1752	59	6303	0≠		RT.≠
64	66	2143	4559		W/C Er
76	59	5659	20		ror -
88	59	45626	34159		restar
1800	63	03 0	≠ *		t. ≠
1000	00	00 0	r		· <i>F</i>
1812					
24					
36					
48				,	
60					
ου					

1872		
84		
96		
1908		
20		
1932		Keyed in data area
44		
56		
68		
80		
1992		
2004		
16		
28		
40		
40		
2052		
64		
76		
88	0≠	
2112		Data xferred from 1932
		Data xierred from 1932
24		
36		
48		
60		
2172		
84		•
96		
2208		
20		
2232	•	
44		
56		
	<b>0</b> -4	
68	0≠	
80		
		·
2292	•	Read in area for comp
2304		· · · · · · · · · · · · · · · · · · ·
16		
28		
40	$(\mathcal{A}_{\mathcal{A}}, \mathcal{A}_{\mathcal{A}}) = (\mathcal{A}_{\mathcal{A}}, \mathcal{A}_{\mathcal{A}}, \mathcal{A}_{\mathcal{A}}) = (\mathcal{A}_{\mathcal{A}}, \mathcal{A}_{\mathcal{A}}, \mathcal{A}_{\mathcal{A}}, \mathcal{A}_{\mathcal{A}})$	
2352		
64		•
76		
88		
2400		PN 2125684
		EC 404618

2412 24 36 48 60		0≠				
2472 84 96 2508 20					table look up area	
2532 44 56 68 80						
2592 2604 16 28 40						
2652 64 76 88 2700						
2712 24 36 48 60						
2772 84 96 2808 20	16 16 37	06371 06407 02293	0≠ 		Reset read card ctr Reset attempts ctr to R A read card 1st try	o 0
2832 44 56 68 80	46 32 26 33 32	03156 02292 02874 02472	00600 06395	B I S F T F C F S F	R/C ind on ? set flag in read in a set up compare posi clear flag from last set flag in comp pos	tion used table pos

2892	26	06431	06419	TF	set up comp pos.
2904	26	06395	06383	TF	reset flag in table area
16	16	06407	<b>0</b> 0	TFM	reset comp attempts str to a
28	26	02946	06419	TF	
40	24	02631	02451	C	Compare read with table
2952	47	03024	01200	BNI	Compare?
64	11	06371	01	A M	add 1 to read completed cont
76	14	06371	80	C	80 completed?
88	47	028 20	01200	BNI	read next card
3000	16	06371	<b>0</b> 0	TFM	reset read card counter to 0.
3012	49	03708		В	
24	26	03042	06395	T F	
<b>3</b> 6	33		_	C F	
48	11	06395	02	A M	Shift comp area in table
60	11	06431	<b>0</b> 2	A M	
3072	11	06407	<b>ō</b> i	A M	add to #comp attempted
84	14	06407	80	C	
96	46	03552	01200	BI	
3108	26	02946	06431	T F	
20	26	03138	06395	T F	
3132	32			SF	
44	49	02940		B	
56	37	02293	00500	R A	read card 2nd try
68	46	03216	00600	ВІ	
80	39	03313	00100	WA	
3192	34		00102	K	
3204	49	02844		В	
16	37	02293	00500	R A	read card 3rd try
28	46	03280	00600	ВІ	
40	39	03373	00100	W A	
3252	34		00102	K	
64	49	02844		В	
76					
80	39	03457	00100	W A	
3300	49	01524		В	
3312	59	2143	5655		R/C on
24		71626	3 63		lst t
36	59	6823	7255		ry, 2 n
48	44	635	968		d try
60	56	5203	0≠		ok.≠
			•		

3372	59	2143	5655		R/C on
84		71626	3 10		lst +
96		72554	4 63		2nd T
3408	59		223		ries,
20	73		6359		3rd tr
20	, 5	0044	0003		
3432	68	565	2030≠		Yok.≠
44					
56	59	2143	5655		R/C on
68	73	5944	63		3 rd t
80	59	68 2	0 59		ry – r
				•	
3492	45	53564	144		e load
3504	59	49575	75345		ripple
16		44454	352		deck
28	20	594	56263		- rest
40	41	59630	3 0≠		art≠
05.50		00050			
3552	46	03672	00100	BI	Check S W 1
64	39	03685	00100	W A	H001 No compare
76	34		00102	K	
88	39	02293	00100	W A	type out card contents
3600	34		00102	. <b>K</b>	
3612	39	02473	00100	w a	type out table contents
24	34	024/3	00100	W K	type out table contents
36	48		00102	H	
48	46	02940	00200	_	
60	49	02940	00200		
80	43	02904		В	
3672	47	03648	00300	BNI	
84	48	70707	1 0≠	Н	
96					
3708	46	03732	00900	BI	Check L/C indicator
20	49	03756		В	
3732	46	03996	00900	ВІ	Check L/C ind off
44	49	04212		В	
56	46	03780	00100	ВΙ	
68	39	03793	00100	W A	H002 L/C not on
80	47	03804	00300	BNI	
	•				
3792	48	70707	2 0≠	H	
3804	47	04164	00200	BNI	continue to numeric
16	39	03925	00100	WA	
28	34		00102	K	
40	49	03708	<b></b>	В	
- ,=				_	

3852					
64					
76			e e e e e e e e e e e e e e e e e e e	•	
88					
3900					
-					
3912					
24	53	2143	4955		L/C in
36	44	49434	16356		dicato
48	59	624	85664		r shou
60	53	44 4	245		
OU	. 33	44 4	243		ld be
2072	F.C	5503	0.4		
3972	56	5503	0≠		on .≠
84	4.0	0.4000			
96	46	04020	00100	ВІ	
4008	39	04033	00106	W A	H003 L/C not off
20	47	04044	00300	BNI	
4032	48	70707	3 0≠	H	
44	47	04164	00200	BNI	
56	39	04093	00100	W A	
68	34		00102	K	
80	49	03708		В	
4092	53	2143	4955		L/C in
4104	44	49434	16356		dicato
16	59	555	663		r not
28	63	64595	54955		turnin
40	47	564	64603		g off.
			•		
4152	0≠				<b>#</b>
64	39	04357	00100	W A	• 
76	49	04224		В	
88					
4200					
				,	
4212	39	04333	00100	W A	
24	34		00102	K	
36	36	04512	00100	RN	read in numeric
48	15	04592	0000≠	TDM	set R M
60	34	04052	00102	K	set V M
00	J-1		00102	v	
4272	41			NOP	
84	31	04596	04512		
96	31	04596			
4308	31 31		04512	TR	•
		04772	04512	TR	
20	49	04956		В	

4332	41	53574	841	•	Alpha
44	56	52 2	Ö		ok -
5 t	:2	4568	4955	•	key in
<b>68</b>		7870	5564		80 nu
80	54	45594	943		meric
	•				
4392	43	48415	94143		charac
4404	63	45596	2 63		ters t
16	56	474	55545		o gene
28	59	41634	5 59		rate r
40	49	57575	345		ipple
	-10	0,0,0			.pp.o
4452	44	45435	203		deck.
64	0≠				<b>#</b>
76	-,				•
88					
4500					
-000					
4512			•		
24					keyed in
36					numeric
48					data
60					
00				•	
4572		•	•	•	
84			<b>#</b>		
96					
4608					
20					
4632					xierred data
44	•				
56			•		
68			¥		
80			•	•	
				•	
4692					
4704					
16					
28					
40				•	table
72.0					area
4752					gred
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76					
88 4800					
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4812	* * *							
24								
36			A STATE OF					
48		<b>≠</b>				**************************************		• 9
60						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
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4872			e de la companyación de la compa					and the Maria
84						read in a	area	
96							1 1 1	
4908								
20						•		
4932			and the same of th					
44			<b>≠</b>					
56	46	04968	00600	В	I			
68	46	04980	00700	В	I			
80	46	04992	00900		I			
4992	46	05004	01400	В	I			
5004	46	05016	01600	В	I			
16	46	05028	01700	В	Ī			
28	46	06588	01900	В	Ī			
40	46	06708	00 900	В	Ī			
,- <b>-</b>	•		4. %. 4		_			
5052	38	04596	00400	W	N	punch ri	pple ded	ck
64	46	05232	00700	В	I	W/C err		
76	11	06443	<u>0</u> 1	A	M	.,, 5		
88	14	06443	80	C				
5100	47	05172	01200	BN		•		
		<del>-</del> -	00-00		-			
5112	16	06443	ōo	TF	'M			
24	39	01669	00100		Α	ripple de	eck punc	hed etc
36	34		00102		K	pp	ou pulle	
48	48				Н			
60	49	05304			В	•		
					_	•		
5172	31	04595	04596	T	R	loop nun	neric wo	rk
84	25	04675	04595	T	D	area for		
96	49	05052	<del>- • • •</del>	-	В		PP 0	- <del></del>
5208					_			
20								
						•		

5232 44 56	39 34 48	01765	00100 00102	W A K H	W/C error etc
68 80	39 49	04357 04248	00100	W A B	
05292			_		
05304	16	05528	Ō0	TFM	Reset Card Counter
05316	16	05375	ō4691	TFM	Set Compare Table Address
05328	36	04872	00500	RN	Read a Card
05340	46	05712	00600	ВІ	Check for Read Check
05352	11	05528	_ 01	A M	Add 1 to Card Counter
05364	16	05435	ō4691	TFM	Set Compare-to Table Address
05376	16	05480	ōo	TFM	Reset
05388	16	05411	<del>0</del> 4872	TFM	Set Read Table Address
05400	25	05444	•	T D	Transmit Read Digit
05412	11	05435	<b>ō</b> 1	A M	Add 1 to Compare-to Table Address
05424	25	05447		T D	Transmit Compare-to Digit
05436	14	05444	<b>0</b> 0 <b>0</b> 0	C M	Compare Digits
05448	47	05556	01200	BNI	
05460	11	05480	<b>ō</b> 1	A M	Add 1 to successful Compare Counter
05472	. 14	05480	ōo 8o	C M	80th Consecutive Successful Compare?
05484	46	05520	01200	BI	
05496	11	05411	Ō1	AM	Add 1 to Read Digit Address
05508	49	05400		В	
05520	14	05528	ōo 8o	C M	80th Card?
05532	47	05316	01200	BNI	
05544	49	05892		В	
05556	14	05435	04772	CM	Can Card be Compared?
05568	46	06048	01100	B 1	Commence of the second
05580	11	05375	Ō1	AM	Add 1 to Compare-to Table Address

5592 5604	49	05364		8		
16		1 .	8 °			en e
28						
40				*		
5652						
64						
76						
88			and the second of the second o			
5700						
5712	36	04872	00500	R	N	read card 2st try
24	46	05772	00600	В	I	
36	39	03313	` 00100	W	Α	
48	34		00102		K	
60	49	05352			В	
5772	36	04872	00500	R	N	read card 3rd tr.
84	46	05832	00600	В	I	
96	39	03373	00100	w	Α	
5808	34		00102		K	
20	49	05352			. <b>B</b>	
5832	39	03457	00100	W	A	R/C on 3rd try reload etc.
44	49	05136			В	
56						
68						
80						
5892	46	05916	00900	В	I	Check L/C ind
5904	49	05952			В	<b>2, 0</b>
16		06192	00900	B	ī	Check L/C ind off
28	49	06288			В	0.100x 2, 0 1.10 011
40					J	
5952	46	05976	00100	В	ī	
64	39	05989	00100	W'	Ā	
76	47	06000	00300	BN		
88	48	70707	5 0≠		Н	
6000	47	06288	00200	BN		
6012	39	03925	00100	w	Α	
24	34		00102		K	
36	49	05892	·		В	
48	46	06168	00100	В	Ī	
60	39	06181	00100	w	A	type out H004

6072	34		00102	K	
84	38	04872	00100	w n	type out card contents
96	34		00102	K	
6108	38	04692	00100	w n	Type out table contents
20			00102	K	
	_				
6132	48	. **		н	
44	46	05436	00200	BI	
56	49	05520		В	
68	47	06144	00300	BI	
80	48	70707	4 0≠	н	
6192	46	06116	00100	BI	
6204	39	06229	00100	W A	
16	47	06240	00300	BNI	
28	48	70707	6 0≠	н	
40	47	06288	00200	BNI	
				<u>.</u>	
6252	39	04093	00100	W A	
64	34		00102	K	
76	49	05892		В	•
88 <b>6</b> 300	39 34	06529	00100 00102	W A K	
0300	74		00102	A	
6312	48			н	
24					
36			· · · · · · · · · · · · · · · · · · ·		alpha punched card counter
48					
60			δo		alpha read card counter
			<u> </u>		
6372			<b>Q2472</b>	•	lst mem pos of alpha table look up
84			02472		
96			ōo		alpha comp attempted
6408			02631		1st comp area alpha
20					
			_		
6432			_ ōo		card count for num punch cards
44			04692		1st mem pos num of table look up
56			₫4692		
68			04771		1st num comp area
6492			<u>ō</u> o		counter num for comp attempts
6504			00		card read num counter
16					
28	49	46 5	556		if no
40	45	63566	2 49		etos I
6552	56	7072	6264		002 su
64	43	43456	26246		ccessi
76	64	5303	0≠		u 1. ≠
6588	39	06723	00100		
6600	47	06624	00600		PN 2125684
	•		<del></del>		EC 404675

6612 24 36 48 60	39 47 39 47 39	06753 06648 06771 06672 06789	00100 00700 00100 01600 00100	W A B N # W A B N I	
6672 84 96 6708	47 39 48 39 48	06696 06813 06837	01700 00100 00100 80044	BNI WA H WA	
20 6732 44 56 68 80	41 52 00 0≠ 52	41556 63410 03000 43485 66590 03000	04348 ≠5944 20300 04348 ≠5442	H	Any D  ATA CH  K. ≠ RD  CHK.  ≠ WR CH  K. ≠ MB
6792 6804 16 28 40	59 52 59 52 43	20450 03000 20560 03000 00565	04348 #5442 04348 #5321 5030#		R-E CH K. ≠MB R-O CH K. ≠ L/ C ON.≠
6852 64 76	- 41 47 54	42434 48495 55565	44546 1 <b>525</b> 3 75859		
88 6900	62 68	63646 69 7	56667 07172		Dummy alpha read in data
6912 24 36 48 60	73 79 20 41 47	74757 03041 21232 42434 48495	677 78 01314 43334 44546 15253	• ,	
6972 84 96 7008 20	54 62 68 73	55565 63646 69 5 740≠	75859 56667 07172		
07032 44 56 68 80	01 23 45 67 89	23456 45678 67890 89012 01234	78907 90123 72345 34567 56789		dummy numeric read in data
07092 7104 16 28 40	01 23	23456 45678	789ōī 9≠		PN 2125684 EC 404675

07152 64	31 49	01932 01140	06B52	T R
76 88 07200	31 49	04512 04248	07032	T R